

<b>NWS Form E-5</b> U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE  <b>MONTHLY REPORT OF HYDROLOGIC CONDITIONS</b>	<b>HYDROLOGIC SERVICE AREA:</b> Pocatello, Idaho
	<b>REPORT FOR:</b>  <b>MONTH:</b> January <b>YEAR:</b> 2011
<b>TO:</b> Hydrologic Operations Division, W/OH2 National Weather Service National Oceanic and Atmospheric Administration Silver Spring, Maryland 20910	<b>SIGNATURE</b>  Troy Lindquist Service Hydrologist
<b>DATE:</b> February 7, 2011	
When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (NWS Instruction 10-924).	

**X** An X in this box indicates that no flooding has occurred for the month within this hydrologic service area.

### Overview

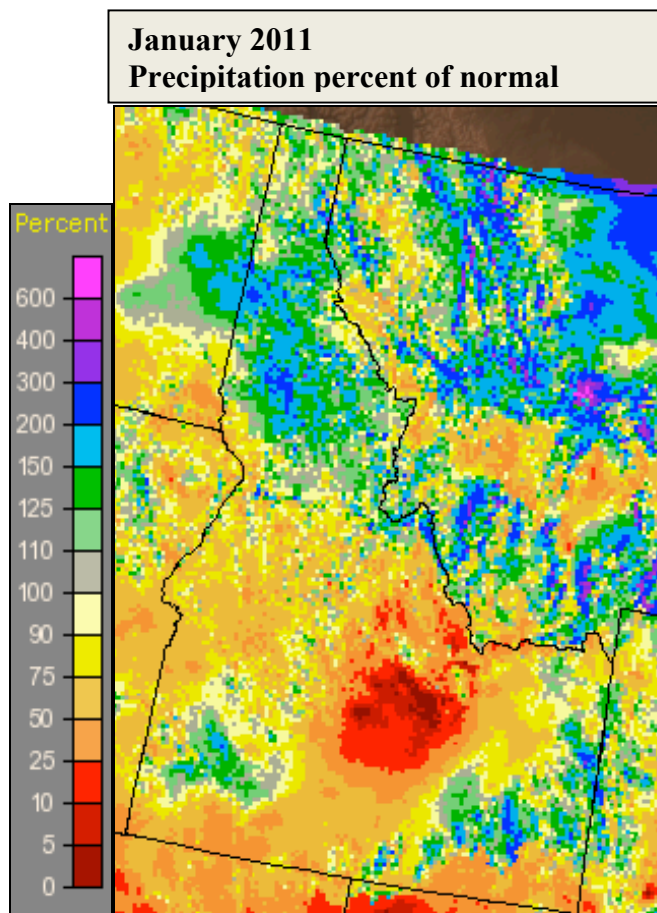
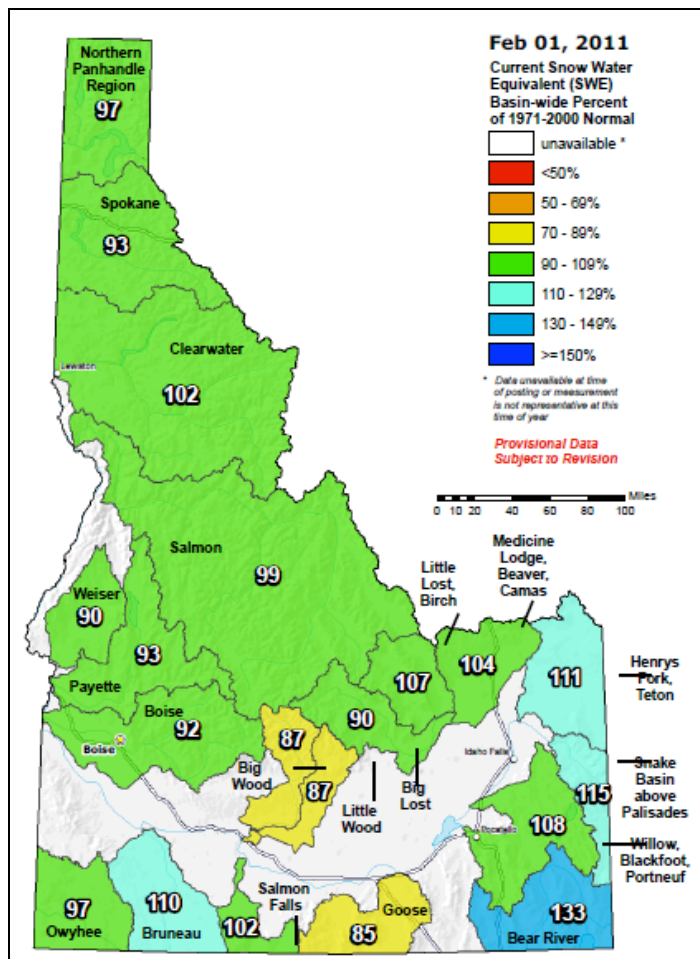
A northwest flow pattern dominated the first 12 days of January. This produced areas of light precipitation mainly across the central mountains and the Upper Snake Highlands while cold temperatures prevailed throughout the area. The weather pattern became more active and a number of storms affected the area the 13<sup>th</sup> through the 23<sup>rd</sup>. This also brought a period of above normal temperatures with rain or a rain/snow mix occurring at mid and low elevations the 16<sup>th</sup> through the 18<sup>th</sup>. Areas of the Portneuf River Basin received around one inch of rainfall in a 48-hour period during this time and much of the low elevation snowpack melted. This caused significant rises on the Portneuf River and Marsh Creek and helped clear out some of the ice that was affecting river gage data quality. The weather pattern shifted back to a drier northwest flow with near normal temperatures to close out the month.

January precipitation varied considerably at SNOTEL sites. Monthly precipitation for the Wood and Lost River basins ranged from 20% to about 50% of average. Meanwhile the mountains further east across the Upper Snake basins generally received about 85% of average for the month. The Bear and Oakley Basins received about 85% to 90% of average.

Thirty-nine National Weather Service COOP and automated stations with climate data reported monthly precipitation for January. Only 10 stations received above average precipitation and fifteen stations received less than 50% of average.

Despite a rather dry January, the snowpack water content remained above average across most of the Hydrologic Service Area. The Bear River Basin led the way sitting at 133% of average. The Wood River basins and Goose Creek basin fell to 87% and 85% of average.

## Precipitation



### Daily Precipitation Records

Station	New or Tied Record	Previous Record
Pocatello Airport	Jan. 25 - 5" snow	5" - 1997
Stanley ASOS	Jan. 16 - .52"	.49" - 1996

### Monthly Precipitation Records

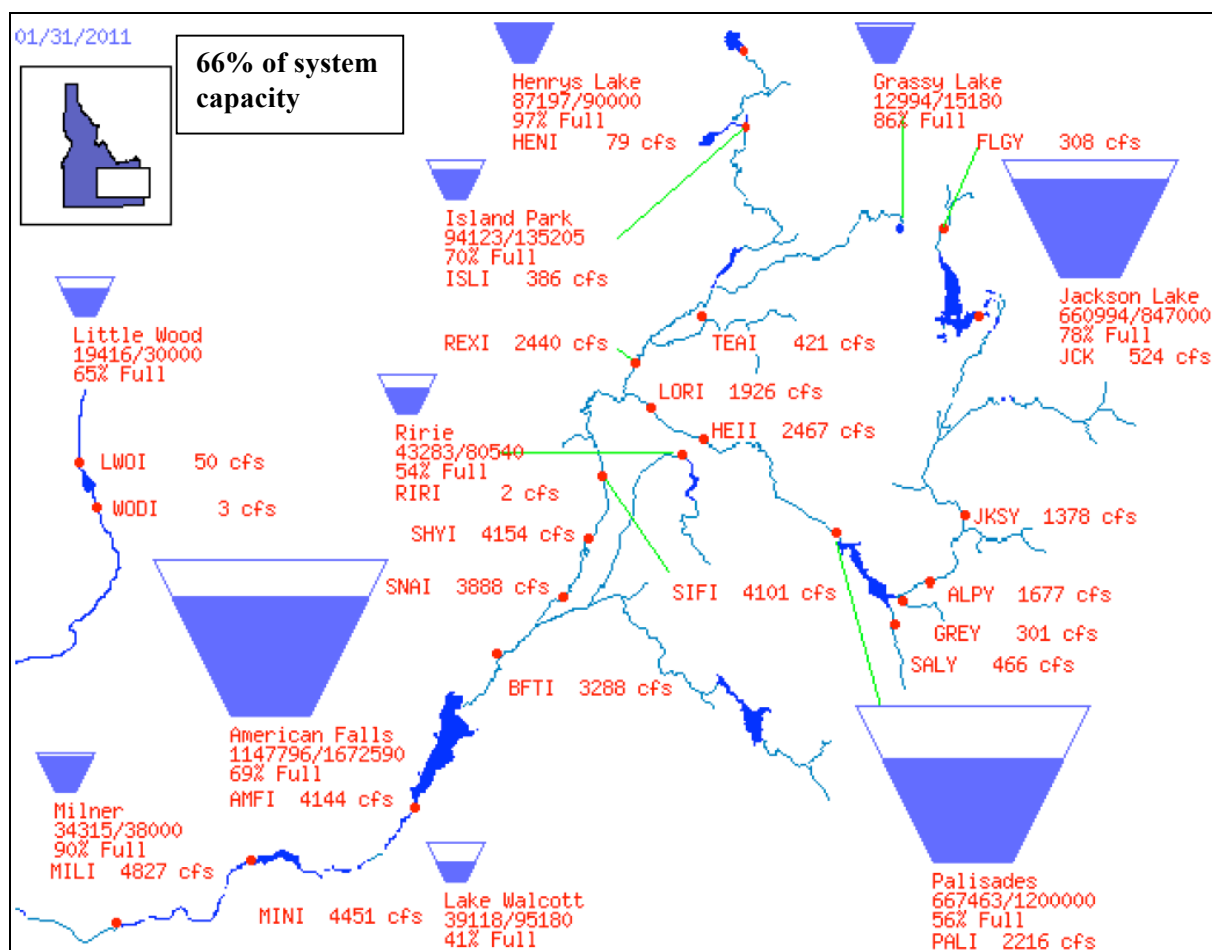
Station	New or Tied Record	Previous Record
Arco Airport	0.00" (low)	0.00" - 1961

## Reservoirs

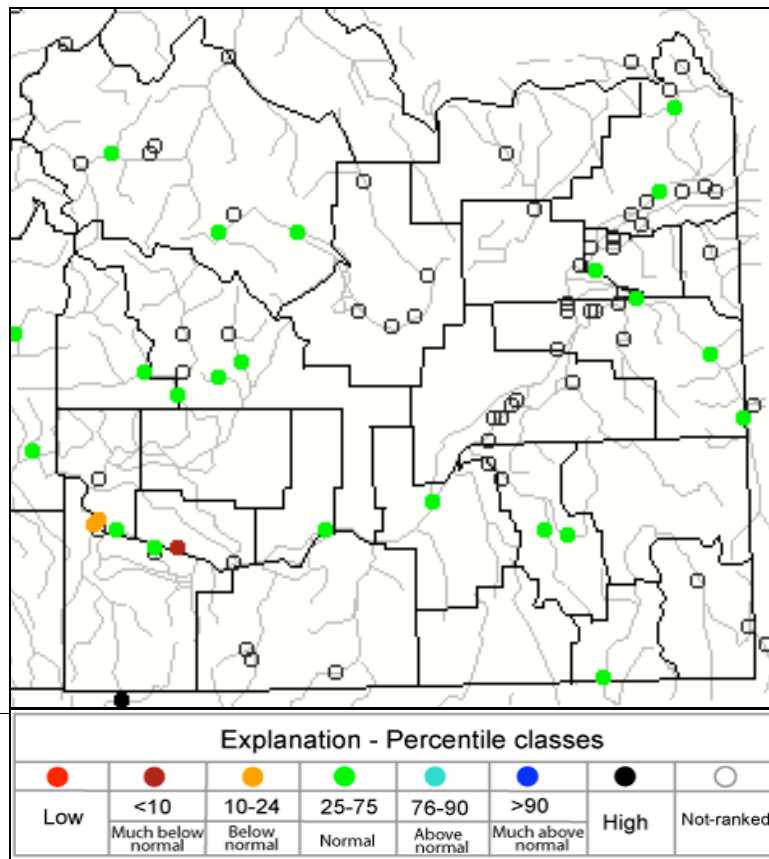
Reservoir	% Capacity Dec. 31 <sup>1</sup>	% Capacity Jan. 31 <sup>2</sup>	Percent Change	% of Average <sup>4</sup>	% of Last Year <sup>4</sup>
American Falls	63	69	6	102	84
Bear Lake	36	37	1	59	99
Blackfoot	57	59	2	94	105
Henry's Lake	96	96	0	105	101
Island Park	68	70	2	92	84
Little Wood	54	65	11	119	89
Mackay	72	80	8	128	98
Magic	42	45	3	101	110
Oakley	21	26	5	68	81
Palisades	58	62	4	83	78
Ririe	50	54	4	121	107
Lake Walcott	42 <sup>3</sup>	41 <sup>4</sup>	-1	n/a	n/a
Milner	88 <sup>3</sup>	90 <sup>4</sup>	38	n/a	n/a

Source: (1) NRCS Dec. 31, 2010; (2) NRCS Jan. 31, 2011.

(3) US Bureau of Reclamation (BOR) Dec. 31, 2010; (4) BOR Jan. 31, 2011



## Streamflow



Monthly streamflow compared to historical streamflow for January, 2011.



## January, 2011 Hydrologic Product Summary

Product	Number Issued
Flood Watch for Flash Flooding	0
Flash Flood Warning	0
Flash Flood Statement	0
Urban and Small Stream Flood Advisory	0
Flood Watch for Flooding	0
Flood Warning	0
Flood Statement	0
Flood Advisory	0
Hydrologic Statement	0
Hydrologic Outlook	0
Water Supply Outlook (State – ESFBOI)	1

cc: Dave Streubel, Western Region HCSD  
 Harold Opitz, Hydrologist in Charge, Northwest River Forecast Center  
 Hydrometeorological Information Center  
 Rick Dittmann, Meteorologist in Charge, Pocatello, Idaho  
 Jay Breidenbach, Senior Service Hydrologist, Boise, Idaho  
 Pocatello WFO Forecasters and HMTs